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Lead-acid batteries; Positive plates; Curing; Crystal morphology (Boden, D.P. (168) 90)

PEFC filter design

Cathode air filter; PEM stack contaminant (Kennedy, D.M. (168) 391)

PEM

Fuel cell; Current distribution (Sun, H. (168) 400)

PEM FCPP

Fuel cell; Load conditions; Reactive power; Stand-alone; Voltage stability (Uzunoglu, M. (168) 240)

PEM fuel cell

Mixed-domain model; Two-phase transport; Water management; Thermal management (Meng, H. (168) 218)

PEM stack contaminant

Cathode air filter; PEFC filter design (Kennedy, D.M. (168) 391)

PEMFC

Platinum oxide; Sr₃NiPtO₆; Sr₃CuPtO₆; Fuel cell (Kjellin, P. (168) 346)

PEMFC

Self-humidifying membrane; Sulfated zirconia supported platinum catalyst; SPEEK; Proton conductivity (Zhang, Y. (168) 323)

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Lithium-ion cells; Low-temperature electrolytes; Kinetics (Smart, M.C. (168) 501)

Performance-degradation mechanism

Lithium-ion cell; Satellite application; Surface characterization (Wang, X. (168) 484)

- Porousvite**
SOFC; Composite cathode; Impedance; Polarization (Qiang, F. (168) 338)
- Photovoltaic**
Dye-sensitized solar cell; Electrochromic device; Optical density difference; Response time (Ahn, K.-S. (168) 533)
- Photovoltaic**
Lead-acid battery; Ageing; Lifetime model; Wind (Schiffer, J. (168) 66)
- Plain mica**
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- Plasma-fluorination**
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- Platinum oxide**
 $\text{Sr}_3\text{NiPtO}_6$; $\text{Sr}_3\text{CuPtO}_6$; Fuel cell; PEMFC (Kjellin, P. (168) 346)
- Polarization**
SOFC; Composite cathode; Impedance; Perosvite (Qiang, F. (168) 338)
- Polybenzimidazole**
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- Polymer electrolyte fuel cell**
Capillary flow; Gas diffusion layer; Leverett; Two-phase flow; Water management (Kumbur, E.C. (168) 356)
- Polymer electrolytes**
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- Polymer-electrolyte fuel cell**
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- Poly(propylene oxide)**
Fuel cell; Montmorillonite; Modified Nafion[®] membrane; 1,3-Propane sulfone (Lin, Y.-F. (168) 162)
- Polysiloxane-based gel electrolyte**
Colloid silica gel electrolyte; Cycle life; Positive active material; Value-regulated lead-acid battery (Tang, Z. (168) 49)
- Porous media**
SOFC; Functionally-graded electrodes; Multi-component mass transfer; Parametric analyses (Ni, M. (168) 369)
- Positive active material**
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- Positive plates**
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- Power degradation**
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- 1,3-Propane sulfone**
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- Proton conductivity**
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- Proton conductivity**
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- Proton conductivity**
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- Proton exchange membrane**
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- Proton exchange membrane fuel cell**
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- Proton exchange membrane fuel cell**
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- Proton exchange membrane fuel cells**
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- PtRu black**
Direct methanol fuel cell; PtRu/C; Unalloyed Ru (Guo, J. (168) 299)
- PtRu/C**
Direct methanol fuel cell; PtRu black; Unalloyed Ru (Guo, J. (168) 299)
- Rate capability**
Mn spinel; Coprecipitation; Homogeneous distribution; Crystallinity; Charge transfer resistance (Wang, X. (168) 282)
- Reactive power**
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- Rechargeable lithium battery**
Organic sulfide polymers; Cathode active materials; Specific capacity (Zhang, J.Y. (168) 278)
- Reflectivity**
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- Reformer recycle**
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- Remote monitoring**
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- Renewable energy system**
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- Response time**
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- Samarium**
Valve-regulated lead-acid battery; Grid alloy; Lead; Electric bicycle; Oxide film (Chen, H.Y. (168) 79)
- Satellite application**
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- Secondary Li-ion battery**
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- Silica-zirconia support**
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- Silver**
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- SOFC**
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- SOFC**
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- SOFC**
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- SOFC**
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- SOFC**
Functionally-graded electrodes; Multi-component mass transfer; Porous media; Parametric analyses (Ni, M. (168) 369)

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Glass seal; Leak rate; NiO; CTE (Chou, Y.-S. (168) 426)

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Ca-doped CeO₂; Coprecipitation; Ce_{1-x}Ca_xO_{2-x}; Nano-particles; Oxide ion electrolyte (Thangadurai, V. (168) 178)

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Nickel hydroxide; Pasted electrodes; Dopants; Battery cycle-life; Oxygen evolution (Snook, G.A. (168) 513)

Solid oxide fuel cell

Anode recycle; Reformer recycle; Carbon formation; Auxiliary power unit; Diesel reforming (Shekhawat, D. (168) 477)

Solid oxide fuel cell

Lattice oxygen; Fuel-free current; Intermittent flow; Methane oxidation; Synthesis gas (Huang, T.-J. (168) 229)

Solid oxide fuel cells

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Soluble divalent lead

Lead dioxide; Conversion; Flow liquid battery (Peng, H.Y. (168) 105)

Specific capacity

Organic sulfide polymers; Rechargeable lithium battery; Cathode active materials (Zhang, J.Y. (168) 278)

Spectroscopy

Ultracapacitors; Electrical modelling; High current tests; Impedance (Lajnef, W. (168) 553)

SPEEK

PEMFC; Self-humidifying membrane; Sulfated zirconia supported platinum catalyst; Proton conductivity (Zhang, Y. (168) 323)

Spiral wound

Valve-regulated lead-acid batteries; Cycle life; Charging strategies; Hybrid vehicles (Soria, M.L. (168) 12)

Sr₃CuPtO₆

Platinum oxide; Sr₃NiPtO₆; Fuel cell; PEMFC (Kjellin, P. (168) 346)

Sr₃NiPtO₆

Platinum oxide; Sr₃CuPtO₆; Fuel cell; PEMFC (Kjellin, P. (168) 346)

Stack evaluation and diagnosis

Fuel cell characterization; AC impedance; Proton exchange membrane fuel cells (Zhu, W.H. (168) 211)

Stand-alone

Fuel cell; Load conditions; PEM FCPP; Reactive power; Voltage stability (Uzunoglu, M. (168) 240)

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Battery-management system; Lead-acid battery; State-of-charge; State-of-health; Renewable energy system (Kaiser, R. (168) 58)

State-of-charge

Battery-management system; Stand-alone system; Lead-acid battery; State-of-health; Renewable energy system (Kaiser, R. (168) 58)

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Battery-management system; Stand-alone system; Lead-acid battery; State-of-charge; Renewable energy system (Kaiser, R. (168) 58)

Steam reforming

Silica-zirconia support; Nickel catalyst; Grafting method; Liquefied natural gas; Hydrogen production (Seo, J.G. (168) 251)

Sulfated zirconia supported platinum catalyst

PEMFC; Self-humidifying membrane; SPEEK; Proton conductivity (Zhang, Y. (168) 323)

Sulfur degradation

SOFC; Anode; Sulfur tolerance (Gong, M. (168) 289)

Sulfur tolerance

SOFC; Anode; Sulfur degradation (Gong, M. (168) 289)

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Supercapacitor

Hydrous ruthenium oxide; Vapour-grown carbon fibre; Electrochemical capacitor; Capacity retention; Morphology (Lee, B.J. (168) 546)

Supercapacitors

Hybrid electric vehicles (HEV); Micro-hybrid; Energy management; Batteries (Karden, E. (168) 2)

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Li-ion batteries; Cathodes; Additives (Li, W. (168) 258)

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Plasma-fluorination; Carbon anode; Lithium ion battery (Nakajima, T. (168) 265)

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Lattice oxygen; Fuel-free current; Intermittent flow; Methane oxidation; Solid oxide fuel cell (Huang, T.-J. (168) 229)

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VRLA; Grid alloys; AGM separators; Reliability (Misra, S.S. (168) 40)

Temperature-dependence

AMTEC electrode; Power degradation (Lodhi, M.A.K. (168) 537)

Theoretical models

Methanol; Fuel cells; Chronoamperometry; Anodes (Ohanian, M. (168) 307)

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PEM fuel cell; Mixed-domain model; Two-phase transport; Water management (Meng, H. (168) 218)

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Capillary flow; Gas diffusion layer; Leverett; Polymer electrolyte fuel cell; Water management (Kumbur, E.C. (168) 356)

Two-phase transport

PEM fuel cell; Mixed-domain model; Water management; Thermal management (Meng, H. (168) 218)

Ultracapacitors

Electrical modelling; High current tests; Impedance; Spectroscopy (Lajnef, W. (168) 553)

Unalloyed Ru

Direct methanol fuel cell; PtRu/C; PtRu black (Guo, J. (168) 299)

V2G

Electric-drive vehicles; Energy storage; Vehicle-to-grid power; Ancillary services (Tomić, J. (168) 459)

Value-regulated lead-acid battery

Polysiloxane-based gel electrolyte; Colloid silica gel electrolyte; Cycle life; Positive active material (Tang, Z. (168) 49)

Valve-regulated lead-acid batteries

Spiral wound; Cycle life; Charging strategies; Hybrid vehicles (Soria, M.L. (168) 12)

Valve-regulated lead-acid battery

Grid alloy; Lead; Samarium; Electric bicycle; Oxide film (Chen, H.Y. (168) 79)

Vanadates

Negative electrode; Molybdenum oxide; Li-ion battery; Discharge capacity; X-ray diffraction (Reddy, M.A. (168) 509)

Vanadium redox couple

Microfluidic fuel cell; Membraneless fuel cell; Laminar flow-based fuel cell; Graphite rod; Array architecture fuel cell (Kjeang, E. (168) 379)

Vapour-grown carbon fibre

Supercapacitor; Hydrous ruthenium oxide; Electrochemical capacitor; Capacity retention; Morphology (Lee, B.J. (168) 546)

Vehicle-to-grid power

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VRLA

Telecommunication; Grid alloys; AGM separators; Reliability (Misra, S.S. (168) 40)

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Direct methanol fuel cells; Water management; Diffusion layer; Back convection (Xu, C. (168) 143)

Water management

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Water management

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Water management

Direct methanol fuel cells; Water crossover; Diffusion layer; Back convection (Xu, C. (168) 143)

Water management

PEM fuel cell; Mixed-domain model; Two-phase transport; Thermal management (Meng, H. (168) 218)

Water management

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X-ray diffraction

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